

The following is a clean version of all pending claims in the case.

A1 1. (Amended) A silicon etching apparatus using  $\text{XeF}_2$ , comprising:  
a basic structure composed of a loading chamber for loading  $\text{XeF}_2$ , an expansion chamber for collecting sublimated  $\text{XeF}_2$  gas, and an etching chamber for performing an etching process; and  
a means for injecting nitrogen to the loading chamber, the expansion chamber or the etching chamber and a means for exhausting nitrogen therefrom prior to the etching process to eliminate air moisture in the apparatus and thus preventing the formation of HF.

A2 2. The silicon etching apparatus using  $\text{XeF}_2$  as claimed in claim 1, further comprising an injector having a predefined shape provided in the etching chamber for uniformly injecting the  $\text{XeF}_2$  gas on the surface of a wafer with a viscous laminar downflow.

A2 3. (Amended) The silicon etching apparatus using  $\text{XeF}_2$  as claimed in Claim 1, further comprising a means for feedback controlling the internal pressure of the loading chamber at the level between sublimation pressure of  $\text{XeF}_2$  and atmosphere pressure to prevent sublimation of the residual  $\text{XeF}_2$  in the loading chamber after etching process.

A2 4. The silicon etching apparatus using  $\text{XeF}_2$  as claimed in claim 1, further comprising a means for measuring the weight of  $\text{XeF}_2$  in the loading chamber.

A3 5. (New) A silicon etching apparatus as set forth in Claim 1 wherein said means for injecting nitrogen initially injects nitrogen to said loading chamber and thereafter to said expansion chamber and said etching chamber.

6. (New) A silicon etching apparatus as set forth in Claim 1 wherein said means for injecting nitrogen initially injects nitrogen to said expansion chamber and thereafter to said loading chamber and said etching chamber.

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cont 7. (New) A silicon etching apparatus as set forth in Claim 1 wherein said means for injecting nitrogen initially injects nitrogen to said etching chamber and thereafter to said loading chamber and said expansion chamber.

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